

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Previously Presented): A network for distributing digital content to subscribers, comprising:

a plurality of user machines;

a central distributor that regularly distributes digital content;

a plurality of cache servers that receive and cache the distributed digital content, wherein the cache servers periodically receive user requests from user machines for certain of the cached digital content and forward the requested digital content to the user machines; and,

a routing box that receives the distributed digital content as files from the central distributor and transfers the digital content files to the plurality of cache servers using a publish-subscribe content-based routing, wherein the digital content files are publications and the user requests are subscriptions and wherein the routing box receives a filter and uses the filter to selectively transfer the digital content files to one or more of the plurality of cache servers.

Claim 2 (Currently Amended): The network of claim 1, wherein the routing box is a first routing box, the network further comprising a second routing box co-located with the plurality of cache servers, wherein the first routing box ~~routes~~ routes the digital content files to the second routing box co-located with at least one of the plurality of cache servers.

Claim 3 (Original): The network of claim 1, wherein the plurality of cache servers are located at a network service provider.

Claim 4 (Original): The network of claim 1, wherein the plurality of cache servers are a first level of cache servers that store all the digital content distributed by the central distributor.

Claim 5 (Original): The network of claim 4, further comprising a second level of cache servers that store a portion of the digital content distributed by the central distributor.

Claim 6 (Original): The network of claim 5, wherein the routing box is a first routing box, the network further comprising a second routing box co-located with the second level of cache servers, wherein the first routing box and the second routing box transfer digital content files from the first level of cache servers to the second level of cache servers using a publish-subscribe content-based routing.

Claim 7 (Previously Presented): The network of claim 6, wherein each of the routing boxes include:

- a receive module for receiving a packet having a header section and a payload section, the payload section including information relating to a digital content file;

- an inspect module for inspecting the payload section of the packet for use in determining how to route the packet; and

- a route module for selectively routing the packet from the first level of cache servers to the second level of cache servers based upon the inspecting.

Claim 8 (Original): The network of claim 5, wherein the portion of the digital content stored by the second level of cache servers is determined based on a history of received user requests.

Claim 9 (Original): The network of claim 5, wherein the second level of cache servers directly receive the user requests and forward user requests to the first level of cache servers for digital content not stored by the second level of cache servers.

Claim 10 (Previously Presented): The network of claim 1, wherein the routing box includes:

- a receive module for receiving a packet having a header section and a payload section, the payload section including information relating to a digital content file;

an inspect module for inspecting the payload section of the packet for use in determining how to route the packet; and

a route module for selectively routing the packet from the central distributor to the plurality of cache servers based upon the inspecting.

Claim 11 (Original): The network of claim 1, wherein the central distributor comprises one or more servers.

Claim 12 (Original): The network of claim 1, wherein the digital content includes video, music and software.

Claim 13 (Previously Presented): A method for distributing digital content to subscribers in a network, comprising:

distributing digital content from a central distributor;

propagating a filter to a routing box in the network;

content-based routing the distributed digital content to a plurality of cache servers using the filter to selectively route the digital content;

caching the content-based routed digital content at the plurality of cache servers;

receiving user subscriptions for requested cached digital content; and,

transferring requested digital content from the plurality of cache servers to users based on the received user subscription.

Claim 14 (Original): The method of claim 13, the content-based routing step including:

receiving a packet having a header section and a payload section, the payload section including information relating to a digital content file;

inspecting the payload section of the packet for use in determining how to route the packet; and

selectively routing the packet to the plurality of cache servers based upon the inspecting.

Claim 15 (Original): The method of claim 14 wherein the inspecting step includes determining whether information in the payload section matches content predicate information in a structure associating the content predicate information with corresponding destinations.

Claim 16 (Previously Presented). The method of claim 14 wherein the inspecting step includes applying [a] the filter to information in the payload section.

Claim 17 (Canceled):

Claim 18 (Previously Presented): The method of claim 14, further including programming the routing box in the network for performing the receiving, inspecting, and routing steps.

Claim 19 (Original): The method of claim 14 wherein the inspecting step includes inspecting attributes for use in determining how to route the packet.

Claim 20 (Previously Presented): The method of claim 14, further including performing the inspecting step in the routing box.

Claim 21 (Original): The method of claim 13, wherein the plurality of cache servers is a first level of cache servers, the method further including transferring cached digital content to a second level of cache servers using content-based routing.

Claim 22 (Original): The method of claim 21, further comprising determining whether the requested digital content is at the second level of cache servers.

Claim 23 (Original): The method of claim 22, further comprising transferring received user subscriptions to the first level of cache servers based on the determination.

Claim 24 (Original): The method of claim 21, wherein the transferring step transfers cached

digital content to the second level of cache servers using content-based routing based on a history of received user subscriptions.